

Section 522—Shoring

522.1 General Description

This work consists of furnishing, placing, maintaining, and removing all materials and equipment required for shoring as shown on the Plans and as described in other Special Provisions. It also includes all incidentals and additional work related to shoring.

522.1.01 Definitions

General Provisions 101 through 150.

522.1.02 Related References

A. Related Specifications

General Provisions 101 through 150.

B. Referenced Documents

General Provisions 101 through 150.

522.1.03 Submittals

A. Drawings

The Engineer may require the Contractor to submit drawings of the proposed shoring for review. If this is required, the Contractor shall not start work until the Engineer completes the review. The review will not relieve the Contractor of responsibility for the adequate and safe performance of the shoring.

522.2 Materials

Use materials that meet the requirements of the Plans and Specifications.

The Contractor retains ownership of all shoring materials.

522.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

522.3 Construction Requirements

522.3.01 Personnel

General Provisions 101 through 150.

522.3.02 Equipment

General Provisions 101 through 150.

522.3.03 Preparation

General Provisions 101 through 150.

522.3.04 Fabrication

General Provisions 101 through 150.

522.3.05 Construction

A. Shoring Design

Ensure that shoring is structurally adequate to withstand forces including the following:

- Forces and pressures resulting from excavation
- Forces and pressures of surcharge loads from adjacent structures, roadbeds, tracks, slopes, and equipment

B. Work Standards

Ensure this work conforms to the Sequence of Construction outlined on the Plans and in the Special Provisions.

522.3.06 Quality Acceptance

General Provisions 101 through 150.

522.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

522.4 Measurement

This work is not measured separately for payment.

522.4.01 Limits

General Provisions 101 through 150.

522.5 Payment

This work will be paid for at the Contract Price for shoring complete in place, maintained, and removed.

Payment will be made under:

Item No. 522	Shoring	Per lump sum
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522.5.01 Adjustments

General Provisions 101 through 150.

Section 523—Dynamic Testing of Pile

523.1 General Description

Specifications for this work will be included elsewhere in the Contract.

Section 524—Drilled Caisson Foundations

524.1 General Description

Specifications for this work will be included elsewhere in the Contract.

Section 525—Cofferdams

525.1 General Description

This work consists of designing, constructing, maintaining, dewatering, removing, and disposing of cofferdams, which are necessary for constructing substructures and for protecting personnel and adjacent structures, roadbeds, tracks, channels, slopes, or other property (public or private) whether on or off the Rights-of-Way from water, caving soil, and other dangers.

525.1.01 Definitions

General Provisions 101 through 150.

525.1.02 Related References

A. Standard Specifications

Section 109—Measurement and Payment

Section 211—Bridge Excavation and Backfill

Section 500—Concrete Structures

B. Referenced Documents

General Provisions 101 through 150.